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TO AM TO WHOM THESE PRESENTS SHALL COME:

Unshington State University Research Youndation

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Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

ADJUNCED TO BE ENTITIED TO ACERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, P. CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN SUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY

CTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'Tara 2002'

In Testimony Marrest, I have hereunto set my hand and caused the seal of the Plant Harrety Arotection Office to be affixed at the City of Washington, D.C. this sixteenth day of September, in the year two thousand two.

Pemjaha

Commissioner Plant Variety Protection Office Agricultural Marketing Service Kuman

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (instructions and information collection burden statement on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

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INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All Items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

 NA
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
 WA007824 "Tara" was first sold on March 21, 2002 (per Washington State Crop Improvement Association, 3/26/02).
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NA

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed/ls-sd.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Chril Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

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EXHIBIT A - ORIGIN AND BREEDING HISTORY

TARA TARA 2002'

MAH 6-11-02

1. Genealogy: Kodiak/Spillman//Westbred 906R

2. Stages of Selection and Multiplication:

1987: Final cross made: WSU research land.

1988: F₁ generation; WSU research land; all plants uniform.

1989: F₂ bulk population; WSU research land; selected 100 random spikes; segregating for maturity, plant height, and disease resistance.

1990: F₃ bulk population; WSU research land; no selection applied; segregating for maturity, plant height, and disease resistance.

1991: F₄ bulk population; WSU research land; selected 150 random spikes; segregating for maturity, plant height, and disease resistance.

1992: F₅ head row (F₄-derived); WSU research land; selected based on appropriate plant height, maturity, and disease resistance; no segregation within the single row.

1993: F₆ Single Plot Nursery (tested as K9300092); WSU research land; selected based on appropriate plant height, maturity, field resistance to leaf and stripe rust, grain protein content, test weight, grain yield, and milling/baking quality; no segregation within the plot.

1994: F₇ Preliminary Yield Trial; WSU research land; selected based on appropriate plant height, maturity, field resistance to leaf and stripe rust, grain protein content, test weight, grain yield, and milling/baking quality; no segregation within the plot.

1995: F₈ State Advanced Yield Trial; WSU research land; selected based on appropriate plant height, maturity, field resistance to leaf and stripe rust, grain protein content, test weight, grain yield, and milling/baking quality; no segregation within the plot.

1996: F₉ State Advanced Yield Trial; WSU Commercial Variety Trial; Tri-State Variety Trial (WA, OR, ID), (tested as WA007824); selected based on appropriate plant height, maturity, field resistance to leaf and stripe rust, grain protein content, test weight, grain yield, and milling/baking quality; no segregation within the plot.

1997: F₁₀ WSU Commercial Variety Trial; Western Regional Performance Nursery; selected based on appropriate plant height, maturity, field resistance to leaf and stripe rust, grain protein content, test weight, grain yield, and milling/baking quality; no segregation within the plot.

EXHIBIT A - ORIGIN AND BREEDING HISTORY, cont.

1998: F₁₁ WSU Commercial Variety Trial; Tri-State Variety Trial (WA, OR, ID); Western Regional Performance Nursery; Uniform Regional Performance Nursery; selected based on appropriate plant height, maturity, field resistance to leaf and stripe rust, grain protein content, test weight, grain yield, and milling/baking quality; no segregation within the plot.

1999: F₁₂WSU Commercial Variety Trial; Uniform Regional Performance Nursery; selected based on appropriate plant height, maturity, field resistance to leaf and stripe rust, grain protein content, test weight, grain yield, and milling/baking quality; no segregation within the plot.

A one acre isolation block of Pre-breeder seed of Tara was established at the WSU-Othello Research station in March, 1999. The field was planted with F_{12} bulk seed harvested from WSU research land. The field was rogued and individual heads were selected for further increase. Heads were individually threshed and inspected for kernel uniformity and market class verification, and seed from each selected head was planted in individual rows in March, 2000.

2000: F_{13} WSU Commercial Variety Trial; selected based on appropriate plant height, maturity, field resistance to leaf and stripe rust, grain protein content, test weight, grain yield, and milling/baking quality; no segregation within the plot.

Approximately 1400 separate 10 ft rows (head rows) were planted on 0.75 acre at the WSU-Othello Research station for Breeder seed production. The headrow block was inspected for phenotypic uniformity, and non-conforming rows were removed prior to harvest. In August, 2000 individual F₁₄ heads (1900) were selected at random from the Breeder seed block to produce additional Breeder seed in sufficient quantity to last the life of the variety. The remaining headrows, representing a reselection of the original headrow block based on phenotypic uniformity, was bulk harvested, producing 1810 lb of Breeder seed.

2001: WA007824 released as the cultivar 'Tara': PI617073

Heads selected from the 2000 Breeder seed headrow block were individually threshed, then planted separately in March, 2001 at the WSU-Othello Research Station for a second round of Breeder seed production. Bulked seed from the original 2000 Breeder seed headrow block was planted in March, 2001 on 13 acres for Foundation seed production.

3. Evidence of uniformity and stability:

Tara has been observed to be stable and uniform with respect to plant morphology since 1999 as an F_{4:11} advanced line. This represents three generations (1999-2001) through which this stability and uniformity have been observed.

4. Variants during reproduction:

TARP 2002 Fara contains a white wheat variant that was observed during the Pre-breeder,
Breeder and Foundation seed increases. This white wheat variant has been established at a level of not more than 5 seeds per 1000 g.

EXHIBIT B. – NOVELTY STATEMENT

Tara 2002

MAH-02

Tara is most similar Westbred 926, which it is intended to replace in the intermediate to high rainfall (>18 inches of average annual precipitation), non-irrigated wheat production regions of Washington State based on its tolerance to the Hessian fly, high grain yield potential, and superior end-use quality, and to Scarlet, the predominant hard red spring wheat in commercial production in the semi-arid region of Washington State.

A. Agronomic Characteristics

Tara can be differentiated from Scarlet and Westbred 926 based on heading date and height differences as described below.

- 1. Tara is earlier in heading than both Scarlet (2 days) and Westbred 926 (1 day) under Washington State field conditions as shown in Table B1 below.
- Tara is 1 inch shorter in plant height when compared to Scarlet and 2 inches taller than Westbred 926 under Washington State field conditions as shown in Table B1 below.

Table B1. Heading date and plant height of Tara, Scarlet, and Westbred 926 in commercial variety trials from 6 locations in Washington State in 2000.

					<u> </u>			
	·				Location			
Trait	Variety	Lind	Ritzville	Pomeroy	Pullman	Fairfield	Royal Slope	Avg.
Heading	Tara	148	160	165	168	169	147	160
(days after	Scarlet	151	161	167	171	174	149	162
Jan 1)	Westbred 926	148	162	166	170	171	148	161
Height	Tara	25	31	30	34	36	34	32
(inches)	Scarlet	27	29	32	34	39	37	33
	Westbred 926	27	28	- 30	33	34	30	30

B. Genetic Characteristics

The novelty of Tara is demonstrated by high-molecular weight (HMW) glutenin profiles (Payne et al. 1983) and microsatellite fingerprint data that, in combination, differentiate, Tara, Westbred 926, and Scarlet. The HMW glutenin profile for Tara is [2* 17+18 5+10], whereas Westbred 926 and Scarlet are [2* 17+18 5+10] and [1 7+9 5+10], respectively (Figure 1).

The microsatellite Xgwm160 is located on chromosome 4AL, near RFLP Xcdo~545 (Röder et al., 1998). Amplification of Xgwm160 reveals a 183bp allele in Tara, whereas a 175 bp and 205 bp allele is present in Westbred 926 and Scarlet, respectively (Figure 2).

References:

Payne, PI, and GJ Lawrence. 1983. Catalogue of alleles for the complex gene loci, <u>Glu-A1</u>, <u>Glu-B1</u>, and <u>Glu-D1</u>, which code for high-molecular-weight subunits of glutenin in hexaploid wheat. Cer. Res. Comm. 11:29-35.

Röder et al. 1998. A microsatellite map of wheat. Genetics 149:2007-2023.

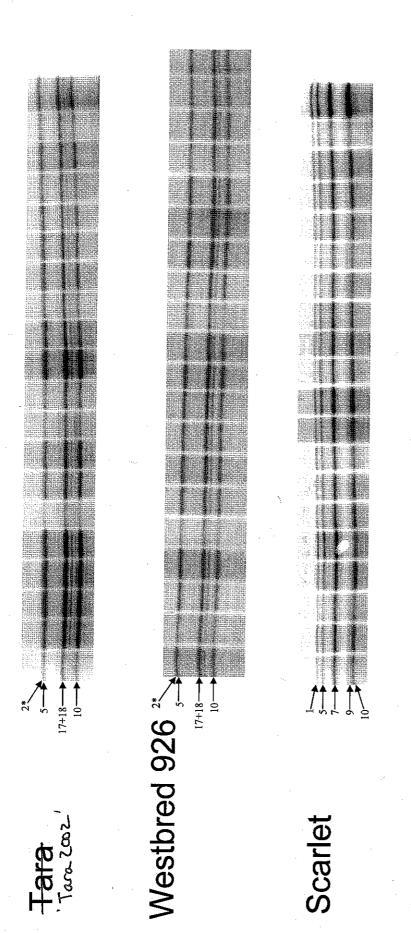
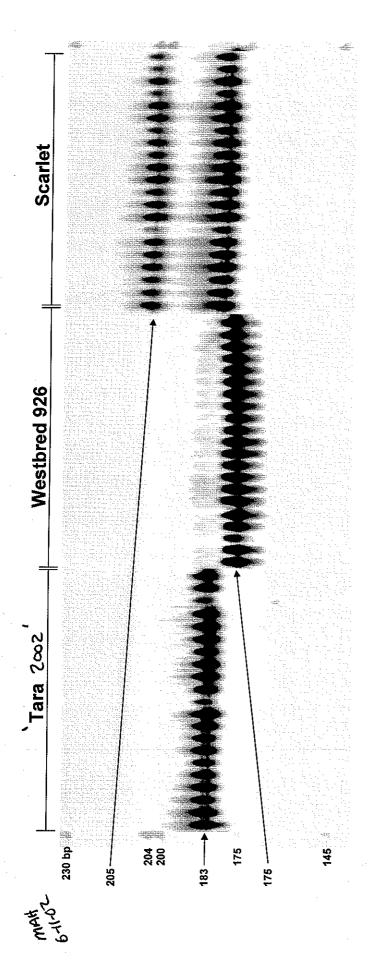


Figure 1. High-molecular weight glutenin profiles of bulked (first lane) and individual progeny extracts of Tara, Westbred 926, and Scarlet kernels. Proteins were resolved via SDS-PAGE, and visualized using Coomassie Brilliant Blue (Payne and Lawrence, 1983).



Westbred 926, and Scarlet. Lanes 1 and 65 are molecular weight standards at 230, 204, 200, 175 and 145 basepairs. DNA was obtained from young leaf tissue; amplified products were resolved in denaturing polyacrylamide and visualized with an automated DNA Li-cor Sequenced (Li-cor, Lincoln, NE). The forward primer for Xgvm160 was labeled with fluorescent dye **Figure 2.** Microsatellite locus Xgwm160 amplified from bulked (first lane of each cultivar) and individual progeny of Tara, detected at 700 nanometers.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 5561-6056

According to the Personnel Reduction Art of 1975, an agroup may an encoded to species. And a person it not repliced to expected it is collection of information indicates a display; a valid CMM compared to complete this information of collection is entirely an interest or arrange. If mineral per response, including the time for reviewing instructions, searching existing data connecting and examplesting and examplesting and examplesting and reviewing the collection of information.

the U.S. Department of Assistations (USDA) prohibits distribution in all its programs and antivides on the basis of race, notice, national origin, gender, origins, age, disability, political beliefs, served orientation and married or family takes. (Not all prohibited bases apply to all proposes.) Process with disabilities who require absentation means for communication of program information (Brailet, large joins, audiorape, exc.) absold contact the USDA's TAPLIET Consess.

to file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Known 126-W., Whiten Building, 14th and independence Avenue, 5W, Washington, DC 20120-9410 or call (201) 720-3964 (votes and TDD). USDA is necessity approximately provided and complayer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELISVILLE, MD 20705 EXHIBIT C (Wheat)

OBJECTIVE DESCRIPTION OF VARIETY WHEAT (Triticum spp.)

		"" LEAR LINE	ican spp.)		•
NAME OF APPLICANT		***************************************	······································	POR OFFICIAL USE ONLY	
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÷.	·				***************************************
				temporary or experimen	TAL DESIGNATION
Place a zero in the fit a minimum of 100 pl may be used to deter	L INSTRUCTIONS CAREFULLY: ref box (e.g. [0] 9] or [0] 9] whilents. Comparative data should be determine plant colors; designate system uses stions for your variety; lack of response	ion number is either 99 or less c cimined from varieties entered id:	or 9 or less respectively. I in the same trial. Royal i	Data for quantitative plant ch	aracters should be based on
1. KIND:			•		
	1=Common	2=Durum	3=Club	4=Other	(SPECIFY):
2. VERNALIZA	ATION:	······	***************************************		······································
	1=Spring	2=Winter	3=Other (SF	PECIFY) :	
3. COLEOPTH	LE ANTHOCYANIN:				
1	1=Absent	2=Present			. •
4. JUVENILE P	PLANT GROWTH:				
[3]	1=Prostrate	2=Semi-erect	3=Erect		
S. PLANT COL	OR (boot stage):				
2	1 - Yellow-Green	2 = Green	3 = Blue-Gre	en:	
6. FLAG LEAF	(boot stage):				
2	I = Erect	2 = Recurved	1	1 = Not Twisted	2 == Twisted
. EAR EMERG	ENCE:				
0 3	Number of Days Earl	ier Than Spillman	444+747	·····	<u>*</u>
0 0	Number of Days Late	r Than Westbred 926			*

					200200	129
8.	ANTHER COLOR:					
	1	Yellow	2 = Purple		• .	
9.	PLANT HEIGHT (from	soil to top of he	ad, excluding nwns):	v +		***************************************
	0 4 cm	Taller Than	Westbred 926			•
٠.	1 3 cm	Shorter Than	Butte 86 .	······		*
				• Relative to a PVPO-	Approved Commercial Variety Gr	own in the Same Tri
10.	STEM:					
	A. ANTHOCYANI	Ň		D. INTERNODE (SI	PECIFY NUMBER)	
	i= Absent	2=Present		I= Hollow	2=Semi-solid	3=Solid
	B. WAXY BLOOM			E. PEDUNCLE		
	1=Absent	2=Present		2 1=Absent	2=Present	
	C. HAIRINESS (In	st internode of r	achis)	32 cm Length		
	1=Absent	2=Present				
11.	HEAD (at Maturity):					
	A. DENSITY		•	C. CURVATURE		
	2 I=Lax 3= Dense	2=Middens	e	2 1 = Erect	2 = Inclined	3 = Recurved
	B. SHAPE		·	D. AWNEDNESS		
	1 = Tapering 3 = Clavate	2= Strap 4 = Other (S	PECIFY):	i = Awnless 3 = Awnletted		
2. (GLUMES (at Maturity):	***************************************				······································
	A. COLOR			C. BEAK		
	1 = White	2 = Tan		$ \begin{array}{c c} \hline 3 & 1 = 0 \\ 3 = Ac \end{array} $	otuse 2 = Acute uminate	
•	3 = Other (SP	'ECIFY) :	***************************************		-	

D. LENGTH

2

l = Short

(ca. 7mm)

3 = Long (ca. 9mm)

2 = Medium

(ca. 8mm)

2 = Oblique

4 = Square

6 ≈ Apiculate

B. SHOULDER

1 = Wanting

3 = Rounded

5 = Elevated

6.7	CHARMERS	(at Maturity)	Cantimued
5 .A	CARRIGINAL	1 7 DE 525 FEE 57 FEE	COMMINEUM

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\$7	AN STREET	J

2 = Medium (ca. 3.5mm)1 = Narrow (ca. 3mm) 3

3 = Wide (ca. 4mm)

13. SEED:

A. SHAPE

1 * Ovate

2 = Oval

3 = Elliptical

C. BRUSH

I=Short

2≈Medium

3=Long

I = Not Collared

2 = Collared

B. CHEEK

1=Rounded

2-Angular

D. CREASE

1 = Width 60% or less of Kernel

2 = Width 80% or less of Kernel

3 - Width Nearly as Wide as Kernel

1 = Depth 20% or less of Kernel

2 = Depth 35% or less of Kernel

3 = Depth 50% or less of Kernel

G. PHENOL REACTION (see instructions):

E. Color

1=White 4= OTHER (Specify)

2= Amber

3= Red

1 ≈ fvory 4

2 = Fawn

3 = Light Brown

4 = Dark Brown

5 = Black

F. TEXTURE

i=Hard

2=Soft

14. DISEASE:

(0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate;

PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED

Stem Rust (Puccinia graminis L sp. tritici) 0

3

Leaf Rust (Puccinia recondita f. sp. tritici)

Stripe Rust (Puccinia striiformis)

Loose Smut (Ustilago tritici) Ó

Tan Spot (Pyrenophora tritici-repentis)

Flag Smut (Urocystis agropyri)

Halo Spot (Sclenophoma donacis)

Common Bunt (Tilletia tritici or T. laevis) 0

Septoria nodorum (Glume Blotch)

Dwarf Bunt (Tilletia controversa) 0

Septoria avenae (Speckled Leaf Disease)

Karnal Bunt (Tilletia indica) 0

Septoria tritici (Speckled Leaf Blotch)

Powdery Mildew (Erysiphe graminis I. sp. tritici) 0

Scab (Fusarium spp.)

"Snow Molds"

. :	Disease (Continued)	(0=Not Tested; 1=Susce)	,	Resistant;	3-Intermediation 2-70 (crant) 2 9
-			THE SPEC	HTC RACE	OR STRAIN TESTED
	0 "Black Point	t" (Kernel Smudge)	0	Common Bipolaris	Root Rot <i>(Fusarium, Cochilabolus</i> and spp.)
<u>\</u>	Barley Yello	w Dwarf Virus (BYDV)	1	Rhizocton	in Root Rot (Rhizoctonia solani)
	O Soilborne Mo	osaic Virus (SBMV)	0	Black Cha	ist (Xanshomonas campestris pv. translucen
	0 Wheat Yellov	w (Spindle Streak) Mosaic Virus	0	Bacterial ! syringae}	Leaf Blight (Pseudomonas syringae pv.
	0 Wheat Streak	(Mosaic Virus (WSMV)		Other (SI	PECIFY)
	Other (SPEC	CIFY)		Other (SI	PECIFY)
	Other (SPEC	TIFY)		Other (SP	PECIFY)
	Other (SPEC	IFY)		Other (SP	ECIFY)
5. IN	SECT: (0=Not Te	sted; I=Susceptible; 2=Res	istant; I	=Intermedia	ite; 4=Tolerant)
5. IN	SECT: (0-Not Te		-		•
5. IN	: :	sted; I=Susceptible; 2=Res PLEASE SPECIFY Mayetiola destructor)	-		eď)
S. IN	Harrian Phy /	PLEASE SPECIFY Mayetiola destructor)	-	(where need	ed) ECIFY)
5. IN	Hessian Fly (1) Stem Sawfly (1)	PLEASE SPECIFY Mayetiola destructor)	-	(where needs	ed) ECIFY) ECIFY)
5. IN	2 Hessian Fly (2) 0 Stem Sawfly (PLEASE SPECIFY Mayetiola destructor) Cephus spp.)	-	(where needs Other (SP	ed) ECIFY) ECIFY)
5. IN	2 Hessian Fly (2) 0 Stem Sawfly (3) 0 Cereal Leaf Bo	PLEASE SPECIFY Mayetiola destructor) Cephus spp.) petle (Outemu metanopa)	-	(where needs Other (SP Other (SP	ed) ECIFY) ECIFY) ECIFY)

EXHIBIT D – OPTIONAL SUPPORTING INFORMATION

Milling and Baking Quality:

'Tara 2002

The end-use quality performance of Tara-is compared with hard red spring wheat varieties Westbred 926 and Scarlet through t-test analyses (Table D1). The grain test weight of Tara is similar to that of Westbred 926, and higher than that of Scarlet. The grain protein concentration of Tara is lower (poorer) than that of Westbred 926, but higher (better) than that of Scarlet. The flour yield of Tara is higher than that of Westbred 926, and similar to that of Scarlet. The flour ash content of Tara is lower (better) than that of Westbred 926, but higher (poorer) than that of Scarlet. The milling score for Tara is higher (better) than that for Westbred 926, but lower (poorer) than that for Scarlet. The flour protein concentration of Tara is higher (better) than that of Scarlet, but lower (poorer) than that for Westbred 926. Mixograph water absorption rates for Tara are similar to those for Westbred 926, but lower (poorer) than those for Scarlet. The mixing time of flour extracted from Tara is significantly longer than those for Westbred 926 and Scarlet, reflecting the strong gluten properties of Tara. Tara has significantly larger (better) bread loaf volumes than the other two varieties.

In general, Tara has excellent grain and milling quality. Of particular note are its excellent bread loaf volumes, demonstrating its superiority over other adapted hard red spring varieties from the region for bread making purposes.

Table D1: Mean, least significant difference (LSD), probability level (P-value) and number of pairwise comparisons made (N) in t-test analyses for various end-use quality characteristics.

	Test Weight	Grain Protein	Flour Yield	Flour Ash	Milling	Flour Protein	Mixing Absorption	Baking Absorption	Mixing	Loaf	
Variety	(nq/qI)	(%)	(%)	(%)		(%)	(%)	•	(min)	(00)	
Tara 2002	60.0	7	*0	***	į	,	9				1
3	02.2	4.0	7:70	0.384"	82.5°	12.1	9.79	65.7	5.81*	1014*	
Westbred 926	61.9	13.8*	66.2	0.420	79.6	12.4*	62.6	66.2	4 20	226	
Q	0.28	0.16	0.29	0.01	0.46	0.16	0.5	! « C	0.42	200	
P-value	0.07	00.00	0.00	0.00	00:00	00.0	0.92	0.16	700	200	
	48	48	47	48	47	48	43	68	300	ရှိ ရှိ	
								}	3	3	
Tara	62.2*	13.4*	67.2	0.380	82.5	12.0*	62.4	65.5	5 83*	1014*	
Scarlet	61.8	13.1	67.6	0.365*	83.7*	11.8	63.0*	66.2	4 48	245	
	0.22	0.19	0.42	0.01	0.54		0.5	2.0	0.50	, 45	
-value	0.00	0.01	0.05	00.0	00:00	0.03	0.02	0.07	000	000	
	51	51	51	51	51	51	46	42	42	42	

*Significantly different at p = 0.05

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EXMIBITE STATEMENT OF THE BASIS OF OWNERSHIP	Application is required to outer finite contribution in the separate (TUS C) confidence in the confidence in a second contribution in the confidence in the	421) The interruption of the d	
Washington State University Research Foundation	WA007824	: * * * * * * * * * * * * * * * * * * *	MA 4-11
1610 NE Eastgate Blvd., Pullman, WA 99163 USA	(509) 335-5526	(509) 335-7237	
	200	200129	80004C
Does the applicant own all rights to the variety? Mark an "X" in	the appropriate block. If no, please exp	lain X XXX	
. Is the applicant (individual or company) a U.S. National or a U.S	S. based company? If no, give name of	country X YES NO	_
). Is the applicant the original owner? X YES	NO If no, please answer one of the fo	llowing:	
a. If the original rights to variety were owned by individual(s),	is (are) the original owner(s) a U.S. Nation	nal(s)?	
	NO If πο, give name of country		
	·		
b. If the original rights to variety were owned by a company(is		sed company?	
X YES	NO If no, give name of country		
Additional outlood is a second of the second			
. Additional explanation on ownership (If needed, use the reversion Tara was developed by Dr. Kimberlee K. Kidwell, Spri	• •	Washington State University	
Washington State Univewrsity's ownership interests are			
washington state conventing a contentinp interests and	c assigned to the washington state is	escaren Poundation.	
EASE NOTE:			<u>. </u>
	ensees) who meet the following criteria:		
ant variety protection can only be afforded to the owners (not lice	t person must be a U.S. national, national	of a UPOV member country, or	
ant variety protection can only be afforded to the owners (not lice if the rights to the variety are owned by the original breeder, that national of a country which affords similar protection to nationals	t person must be a U.S. national, national s of the U.S. for the same genus and spec	ies.	
ant variety protection can only be afforded to the owners (not lice if the rights to the variety are owned by the original breeder, that national of a country which affords similar protection to nationals if the rights to the variety are owned by the company which emphationals of a UPOV member country, or owned by nationals of	t person must be a U.S. national, national s of the U.S. for the same genus and special breeder(s), the companion	ies.	
EASE NOTE: ant variety protection can only be afforded to the owners (not lice if the rights to the variety are owned by the original breeder, that national of a country which affords similar protection to nationals if the rights to the variety are owned by the company which emphationals of a UPOV member country, or owned by nationals of genus and species. If the applicant is an owner who is not the original owner, both the	of person must be a U.S. national, national sof the U.S. for the same genus and special played the original breeder(s), the companda country which affords similar protection	ies. y must be U.S. based, owned by to nationals of the U.S. for the same	

response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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